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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/716,196

11/17/2003

Debabani Choudhury

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03/11/2005

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EXAMINER

OWENS, DOUGLAS W

ART UNIT

PAPER NUMBER

2811

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/716,196	<b>Applicant(s)</b> CHOUDHURY ET AL.	
	<b>Examiner</b> Douglas W. Owens	<b>Art Unit</b> 2811	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-14 and 18-20 is/are rejected.
- 7) ☒ Claim(s) 5, 6 and 15-17 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## **DETAILED ACTION**

### ***Claim Objections***

1. Claims 18 – 20 are objected to because of the following informalities: in the first line of each of the claims, "The housing" should be replaced with --The method--.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 8, 10 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 8 and 19 require a housing further comprising "an integrated circuit". The scope of the claim is vague since it is not clear if this is an integrated circuit in addition to the IC cited in claim 1, or if this is the same IC cited in claim 1.

A trademark or trade name is used in claim 10 as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of the 35 U.S.C. 112, second paragraph. (*Ex parte Simpson*, 218 USPQ 1020 (Bd. App. 1982)) The claim scope is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product.

### ***Claim Rejections - 35 USC § 102***

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 – 4, 7 – 9, 11 – 14 and 18 – 20 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,603,193 to Crane, Jr. et al.

Regarding claim 1, Crane, Jr. et al. teach a housing for an integrated circuit (Fig. 4), comprising:

a base (12) for securing a substrate with an integrated circuit thereon (14, bottom portion);

a top cover (28); and

a body (14) with a cavity for receiving the substrate and a portion of the top cover therein to form an enclosed housing therewith, the body including at least one connector (30, 32) extending from within the cavity to outside of the body and configured to electrically contact the integrated circuit when the substrate is in the cavity.

Regarding claim 2, Crane, Jr. et al. teach a housing wherein the top cover comprises a metal (Col. 4, lines 8 and 9).

Regarding claim 3, Crane, Jr. et al. inherently teach that at least one of the connectors is an RF connector, since Crane, Jr. et al. also teaches an RF shield (17; Col. 4, lines 53 – 59).

Regarding claim 4, Crane, Jr. et al. inherently teach that at least one connector is a DC connector, since it would have been required for operation of the device.

Regarding claim 7, Crane, Jr. et al. teach a housing, wherein the top cover further comprises an absorber formed of a material (Cu; Col. 4, lines 8 and 9) that absorbs radio frequency energy (copper is a known RF shield material), the absorber

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configured to be received into the cavity when the base, the body, and top cover are secured together.

Regarding claim 8, Crane, Jr. et al. teach a housing further comprising:

an integrated circuit (18) mounted onto the base to be received in the cavity and electrically contact the at least one connector when the base, the body, and the top cover are secured together.

Regarding claim 9, Crane, Jr. et al. a housing wherein the integrated circuit is a monolithic microwave integrated circuit (Col. 3, lines 57 and 58, for example).

Regarding claim 11, Crane, Jr. et al. teach a method for forming a housing for an integrated circuit (Fig. 4), comprising:

providing a base (12) for securing a substrate with an integrated circuit thereon (14, bottom portion);

providing a top cover (28); and

providing a body (14) with a cavity for receiving the substrate and a portion of the top cover therein to form an enclosed housing therewith, the body including at least one connector (30, 32) extending from within the cavity to outside of the body and configured to electrically contact the integrated circuit when the substrate is in the cavity.

Regarding claim 12, Crane, Jr. et al. teach a method wherein the top cover comprises a metal (Col. 4, lines 8 and 9).

Regarding claim 13, Crane, Jr. et al. inherently teach a method wherein at least one of the connectors is an RF connector, since Crane, Jr. et al. also teaches an RF shield (17; Col. 4, lines 53 – 59).

Regarding claim 14, Crane, Jr. et al. inherently teach that at least one connector is a DC connector, since it would have been required for operation of the device.

Regarding claim 18, Crane, Jr. et al. teach a method, wherein the top cover further comprises an absorber formed of a material (Cu; Col. 4, lines 8 and 9) that absorbs radio frequency energy (copper is a known RF shield material), the absorber configured to be received into the cavity when the base, the body, and top cover are secured together.

Regarding claim 19, Crane, Jr. et al. teach a method further comprising:  
mounting an integrated circuit (18) mounted onto the base to be received in the cavity and electrically contact the at least one connector when the base, the body, and the top cover are secured together.

Regarding claim 20, Crane, Jr. et al. a method wherein the integrated circuit is a monolithic microwave integrated circuit (Col. 3, lines 57 and 58, for example).

***Allowable Subject Matter***

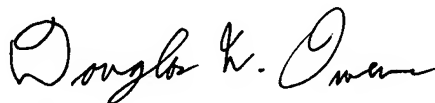
5. Claims 5, 6 and 15 – 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W. Owens whose telephone number is 571-272-1662. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Douglas W Owens  
Examiner  
Art Unit 2811

DWO